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	PRODUCERS OF GASEOUS	& LI	Attachment to Attachment to Attachment to CTION PLANTS QUID OXYGEN & NITROGEN FOR THE USSR & CHINA	2 March 1967 Page 1 Copy /
1.	SIGNIFICANCE:	FAC	MPLES OF SOVIET LIQUEFACT ILITIES RELATED TO MISSIL CH HAVE BEEN IDENTIFIED OF	ES AND INDUSTRY
2.	LOCATION:	A. B. C. D. E.	DNEPROPETROVSK MINSK LVOV STERLITAMAK KRASNOYARSK KAPUSTIN YAR	INDUSTRY INDUSTRY INDUSTRY INDUSTRY MISSILES MISSILES
3.	REMARKS:	LOX	LIQUID OF THE OXIDIZERS.	WN AND MOST

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USSR.

THE GERMANS IN WORLD WAR II V-2 MISSILES AND.

IS NOW USED EXTENSIVELY IN THE USA AND THE

GROUP 1 Excluded from automotic dewngrading and declassification

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FOR INDUSTRIAL PURPOSES GASEOUS OXYGEN IS PREFERABLE.

B. LIQUID OXYGEN IS PRODUCED BY THE REPEATED

COMPRESSION, COOLING AND SUBSEQUENT LIQUE
FACTION OF AIR. THE LIQUID AIR IS THEN FRAC
TIONATED INTO LIQUID NITROGEN AND LIQUID OXYGEN
OR THE LIQUID NITROGEN MAY BE SEPARATED FROM

THE LIQUID OXYGEN BY SIMPLE EVAPORATION.

THE IDENTIFICATION OF A LIQUID OXYGEN

PRODUCTION PLANT MAY BE QUITE DIFFICULT SINCE

ALL PROCESSING EQUIPMENT AND LOADING DOCKS MAY

BE INSTALLED WITHIN THE BUILDING. EXTERNAL

FEATURES SUCH AS LISTED BELOW HAVE ASSISTED IN

THE IDENTIFICATION OF THE SITES DEPICTED ON

THIS BRIEFING BOARD.

- 1) LARGE SUBSTATION
- 2) STORAGE TANKS
- 3) DISTILLATION OR FRACTIONATING TOWERS
- 4) AIR INTAKE STRUCTURES
- 5) LOADING PLATFORMS OR DOCKS
- 6) WATER STORAGE TANKS

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- 7) WATER COOLING TOWERS OR TRAYS
- 8) INSULATED DOUBLE-WALL TANKS (KEYHOLE SHAPED)
- 9) GASHOLDERS
- 10) HIGH BAY PRODUCTION BUILDINGS

4. COLLATERAL:

FID TOWN AND PLANT FOLDERS ARE USED EXTEN-SIVELY AS INDICATORS FOR LOCATION OF CRYOGENIC PRODUCTION FACILITIES.

5. COMMENT:

OF THE SIX FACILITIES DEPICTED ON THE BRIEFING BOARD, 3 OF THESE FACILITIES HAVE BEEN
KNOWN TO BE CRYOGENIC PRODUCERS FOR SOME TIME
(MINSK, LVOV AND KRASNOYARSK) WHILE THE FACILITIES AT DNEPROPETROVSK, STERLITAMAK, AND
KAPUSTIN YAR ARE VERY RECENTLY CONFIRMED
CRYOGENIC PRODUCTION FACILITIES.

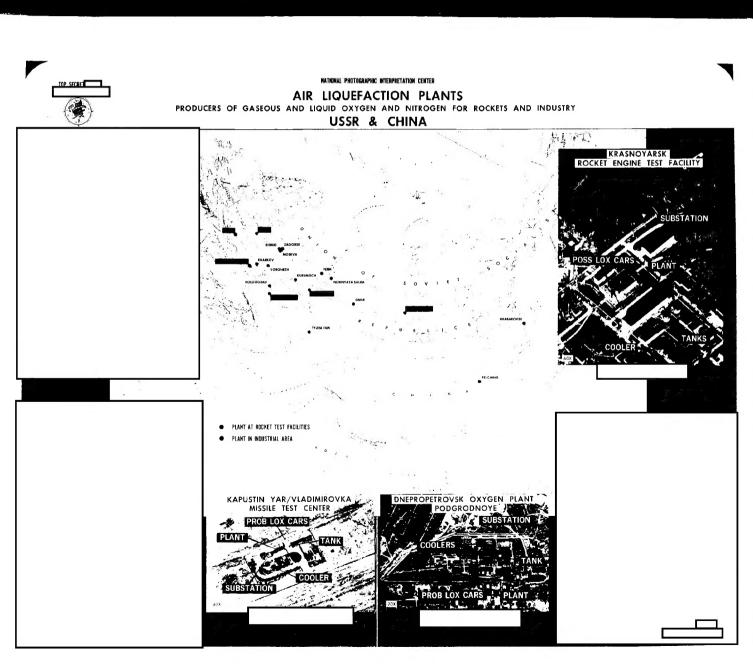
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